

WE CLAIM:

1. A method for breeding swine that are resistant to *E. coli* associated diseases, said method comprising:

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- a. selecting for breeding swine that have a genetic polymorphism in at least one copy of the alpha (1,2) fucosyltransferase 1 gene that identifies them as swine that are resistant to *E. coli* related intestinal diseases when said gene is homozygous;
- b. breeding the selected swine; and
- 10 c. selecting those swine resulting from breeding that are homozygous for the resistant allele of the alpha (1,2) fucosyltransferase 1 gene for production of resistant swine.

2. The method of claim 1, wherein *E. coli* is strain F18.